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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)
Barak et al.	) Group Art Unit: 1646
Application No. 09/631,468	) Examiner: Unknown
Filed: August 3, 2000	)
For: Methods for Assaying Receptor Activity and Constructs Useful in Such Methods	) ) )

# INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Enclosed is a Supplemental Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

[x] No additional fee for submission of an IDS is required.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Melissa M. Hayworth Registration No. 45,774

P.O. Box 1404 Alexandria, Virginia 22313-1404 (919) 941-9240

Date: Dec. 18, 2000

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)
Barak et al.	) Group Art Unit: 1646
Application No. 09/631,468	) Examiner: Unknown
Filed: August 3, 2000	)
For: Methods for Assaying Receptor Activity and Constructs Useful in Such Methods	) )

### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Registration No. 45,774

P.O. Box 1404

Alexandria, VA 22313-1404

Phone: (919) 941-9240

Date: Dec. 18 2000

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	5,462,856	10/31/95	Lerner et al.		435	7.21		
	5,491,084	10/4/94	Chalfie et al.		514	12 HE	CEIVED	
	5,541,309	7/30/96	Prasher, D.		536	23.2 DE	C 2 6 2000	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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- 1	6,051,386	4/18/00	Lerner et al.		435	7.21		7
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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Barak et al.

Serial No.: To be Assigned
Filed: Concurrently Herewith

Group Art Unit: 1646 Examiner: N. Basi

For:

METHODS OF ASSAYING RECEPTOR ACTIVITY AND CONSTRUCTS

USEFUL IN SUCH METHODS

Date: August 3, 2000

BOX PATENT APPLICATION Commissioner for Patents Washington, DC 20231

# INFORMATION DISCLOSURE STATEMENT CITATION UNDER 37 C.F.R. § 1.97

Sir:

Attached is a list of documents on form PTO-1449. Items 1-26 listed on the PTO-1449 were cited in parent application Serial No. 09/233,530, filed January 20, 1999. Since the benefit of this application is claimed under 35 U.S.C. §120, no copies need to be furnished in accordance with 37 C.F.R. §1.98(d); however, copies will be furnished on request. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

Respectfully submitted.

Kenneth D. Sibley

Date of Deposit: August 3, 2000

Registration No. 31,665

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Correspondence Address: USPTO Customer No.: 20792 Myers Bigel Sibley & Sajovec PO Box 37428 Raleigh NC 27627

Tel (919) 854-1400 Fax (919) 854-1401

20231.

Kenneth D. Sibley

Date of Signature: August 3. 3000

	Patent a	.S. Department of and Trademark Of UMENTS CITED	ffice	ANT	Attorney Doc	Serial No.: 08/869,568		
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	1	Barak et al., Ab	stract #2484	, <u>Molecular Bi</u>	ology of the Cell	7:427a (Dec	ember 1996)	•
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LIST	OF DOC	UMENTS CITED	BY APPLIC	ANT					
	(Use	several sheets if ne	cessary)		Applicant: Barak et al.				
					Filing Date:	5 June 1997		Group:1646	
			U.S.	PATENT DO	CUMENTS				
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	1	WO 98/12310		PCT					
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	2	Yokoe and Mey	ver. Spatial I	Dynamics of GI	FP-tagged protei 252 (October 199	ns investigate	ed by local fl	uorescence	
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		·			APPLICANT(S	):BARAK	et al			
			U.S	. PATEN	T DOCUMENTS					
*		DOCUMENT NUMBER	DATE		NAME(S) CLASS			.ASS	FILING DATE	
	Α	US 5,366,889	Nov. 22, 1994	MacDon	ald et al	435	252.3		Nov. 30, 1992	
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	В	Cubitt, A. B.et Fluorescent Prot 455	al., Unde eins. Tre	rstandi nds in	ng, Improving Biochemical So	and Usin	g Gree pages	en 448-	1995	
	С	Harris, E. L. V. University Press	et al, P , New Yor	rotein k. Page	Purification 1 s 12-18	Methods,	Oxfor	i	1990	
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311	1	5,284,746	2/8/94	Sledziewski e	et al	435	6	2/8/90			
NW	2	5,468,854	11/21/95	McCabe et al		540	498	7/22/93			
	3	5,482,835	1/9/96	King et al		435	6	6/3/93			
	4	5,491,084	2/13/96	Chalfie et al		435	189	9/10/93			
	5	5,532,157	7/2/96	Fink		435	240.2	1/3/94			
	6	5,576,436	11/19/96	McCabe et al		546	156	3/2/94			
	7	5,366,889	11/22/94	MacDonald e	t al	435	252.3	10/30/92			
X	8	5,989,835	11/23/99	Dunlay et al.		435	7.2	2/27/97			
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W	9	WO94/16684	8/4/94	PCT							
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M	11	L.S. Barak et al. Receptor-Green	_			-	,	lrenergic			
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	13	L.S. Barak et al. Agonist-mediate	; A Highly Co d β2-Adrenerg	nserved Tyrosir gic Receptor, <u>J.</u>	ne Residue in G l of Biological Ch	Protein-couple em. 269, No.	led Receptors . 4:2790-2795	is Required for 5 (1994)			
	14	S.S.G. Ferguson Sequestration, T	et al.; <i>Role of</i> he J. of Biolo	Phosphorylation (Phosphorylation)	on in Agonist-pro 0, No. 42:24782-	omoted β <sub>2</sub> -Ad 24789 (1995	lrenergic Rec	eptor			
	15	S.S.G. Ferguson Internalization,			lediating Agonis	t-Promoted (	F Protein-Coi	ipled Receptor			
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Nº.	175	18	L. Ménard et al.; Members of the G Protein-C Adrenergic Receptor Facilitate Sequestration,		sphorylate the β-						
		19	M. Ormö et al.; Crystal Structure of the Aequa 1295 (1996)	orea victoria Green Florescent Protein, <u>Sc</u>	<u>sience</u> 273: 1392-						
		20	Cubitt, A.B. et al.; <i>Understanding, Improving</i> Biochemical Sciences, 448-455 (1995)	and Using Green Fluorescent Proteins, <u>T</u>	rends in						
		21	Harris, E.L.V. et al.; Protein Purification Meth (1990)	hods, Oxford University Press, New York,	Pages 12-18						
		22	Yokoe and Meyer, Spatial Dynamics of GFP-ienhancement, Nature Biotechnology, 14:1252		escence						
		23	Barak et al.; Abstract #2484, Molecular Biolog	gy of the Cell, 7:427a (December 1996)							
		24	Attramadal et al.; \(\beta\text{-Arrestin2}\), a Novel Member of the Arrestin/\(\beta\text{-Arrestin Gene Family*}\), The Journal of Biological Chemistry, 267:25 17882-17890 (1992).								
	Barak et al.; A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*, The Journal of Biological Chemistry, 272:44 27497-27500 (1997).										
,	刀	26	Ferguson et al.; Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization, Life Sciences, 62:17/18 1561-1565 (1998).								

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N5B	1	5,284,746	2/8/94	Sledziewski	et al.	435	6	
Ì	- <del>2</del>	5,468,854	11/21/95	McCabe et	al.	540	498	
	3	5,482,835	1/9/96	King et al.		435	6	
	4	5,491,084	2/13/96	Chalfie et a	l.	435	189	
	5	5,532,157	7/2/96	Fink		435	240.2	
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NSO	7	WO94/16684	8/4/94	PCT				
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	14	M. J. Lohse et 248:1547-1550		in: A Protein I	That Regulates f	3-Adrenergic	Receptor Fun	action, Science
	15				in-Coupled Rece testration, <u>Bioch</u>			
	16	M. Ormö et al 273:1392-1395		ucture of the A	lequorea victorio	a Green Fluo	rescent Prote	ein, Science

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	3	5,482,835	1/9/96	King et al		435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al		435	189	9/10/93
	5	5,532,157	7/2/96	Fink		435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al		546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et	al	435	252.3	10/30/92
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	11	L.S. Barak et al.; Receptor Superfa 15414 (1995)	The Conserve mily Regulate	ed Seven-Transm es Multiple Prop	embrane Seque erties of the β2-2	nce NP(X) <sub>2.3</sub> . Adrenergic R	Y of the G-Pro eceptor, <u>Bioc</u> l	hem. 34:15407-
	12	L.S. Barak et al.; Agonist-mediated	A Highly Con β <sub>2</sub> -Adrenergi	served Tyrosine ic Receptor, <u>J. o</u> t	Residue in GP Biological Che	rotein-couple em. 269, No.	ed Receptors i 4:2790-2795	s Required for (1994)
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	14	S.S.G. Ferguson e Internalization, S	et al; <i>Role of</i> p	3- <i>Arrestin in Med</i> 3-366 (1996)	diating Agonist	Promoted G	Protein-Coup	oled Receptor
	15	S.S.G. Ferguson e and arrestins, Car	et al. <i>G-protein</i> 1. J. Physiol. I	n-coupled recept Pharmacol, 74:10	tor regulation: 1 095-1110 (Oct.	role of G-pro 1996)	tein coupled r	eceptor kinases
	16	M.J. Lohse et al.; 248:1547-1550 (1	β-Arrestin: A	Protein That R	egulates β-Adre	nergic Recep	tor Function,	Science
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Do	Serial No. 09/233,530				
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Ma	CA	Attramadal et al.; β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*, The Journa Biological Chemistry 267:25 17882-17890 (1992).							
	СВ	Barak et al.; A \(\beta\)-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*, The Journal of Biological Chemistry 272:44 27497-27500 (1997).							
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office			Attorney Docket Number 5405-140CT	Serial No. To be assign			
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			Applicants: Barak et al.				
			Filing Date: Concurrently herewith	Group To be assign			
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